AMERICAN UNIVERSITY OF BEIRUT OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN: DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

HALIM HOURANI, OBSERVER

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

December 1958

LIBRARY
MAY 26 1959
WEATHER BUREAU

nted at the American Press.

DECEMBER 1958
METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20.30	Mean
1	62.6	61.7	62.2	62.2	19.2	13.0	16.5	18.2	15.5	16.7
2	61.1	59.1	59.4	59.9	19.1	13.5	15.7	18.2	15.0	16.3
3	59.2	59.7	61.6	60.2	18.2	14.8	16.0	17.3	16.0	16.4
4	64.9	63.8	64.8	64.5	18.0	14.3	15.2	16.7	15.5	15.8
5	63.4	62.3	62.2	62.6	19.1	15.0	15.8	18.4	16.6	16.9
6	60.4	57.9	58.0	58.8	19.5	16.7	16.6	18.9	18.4	18.0
7	56.3	54.1	55.8	55.4	25.6	15.0	19.6	22.5	20.0	20.7
8	56.7	57.0	58.3	57.3	20.0	14.0	17.2	17.9	16.8	17.3
9	61.6	61.9	63.5	62.3	17.4	12.8	15.8	16.3	14.4	15.5
10	65.0	64.5	65.1	64.9	16.5	13.5	14.3	15.9	14.2	14.3
11	65.3	64.3	64.8	64.8	18.0	13.0	15.2	17.5	15.0	15.9
12	63.6	60.6	57.5	60.6	17.6	14.5	14.5	16.8	15.6	15.6
13	54.8	54.5	56.3	55.2	22.0	13.6	20.0	18.9	15.3	18.1
14	58.9	59.1	61.4	59.8	18.8	14.6	15.0	18.0	16.1	16.4
15	63.9	63.3	64.5	63.9	18.9	14.5	15.7	18.0	15.4	16.4
16	63.3	61.2	61.1	61.9	18.7	14.6	15.7	17.5	16.5	16.6
17	61.9	62.1	63.7	62.6	19.0	14.2	16.0	18.0	15.6	16.5
18	66.6	66.1	66.9	66.5	18.5	14.0	15.5	17.0	15.7	16.1
19	67.8	66.1	66.0	66.6	19.0	14.7	15.0	17.5	15.6	16.0
20	64.6	62.8	62.8	63.4	19.5	15.0	16.2	18.5	16.4	17.0
21	62.8	62.3	63.0	62.7	20.2	13.6	16.4	18.5	16.3	17.1
22	65.4	65.4	66.4	65.7	18.9	14.0	15.2	17.5	15.3	16.0
23	67.1	66.1	66.2	66.5	18.2	14.1	14.8	17.0	16.0	15.9
24	66.3	64.8	64.7	65.3	19.2	15.2	15.2	17.3	16.0	16.2
25	64.2	62.7	62.3	63.1	20.2	15.5	16.5	18.2	16.5	17.1
26	60.2	60.4	62.6	61.1	21.4	16.9	17.8	21.2	18.0	19.0
27	65.6	65.2	65.9	65.6	19.5	14.6	17.6	18.5	17.5	17.9
28	65.0	64.3	64.3	64.5	18.5	14.6	16.0	17.6	15.0	16.2
29	63.7	62.7	63.1	63.2	19.0	13.9	15.7	18.0	16.0	16.6
30	65.1	65.2	66.5	65.6	18·2	13.5	14.9	17.1	15.6	15.9
31	66.3	66.3	66.8	66.8	17.9	12.7	14.0	16.6	14.5	15.0
	63.05	62.18	62.83	62.69	19.15	14.32	15.99	17.92	16.01	16.64

Barometer, range for month 767.8mm. — 754.1 mm.
„ 71-yr. average for month 763.23mm.
Thermometer, range for month 25.6°C — 12.7°C
„ 82-yr. average for month 15.6°C
Rain total for month 63.53 mm.
„ 82-yr average for month 188.0 mm.
„ Total, Sept. 1st. to end of month 148.12 mm.
„ 82-yr average. Sept. 1st. to end of month 375.27 mm.

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Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	9.5	11.9	10 0	10.5	50	57	56	54	8.6	40	
2	12.3	13.3	15.1	13.6	69	64	89	74	2.0	148	5.05
3	13.3	16.1	14.7	14.7	73	82	81	79	4.1	237	17.70
4	14.9	14.3	13 8	14.3	87	75	79	80	0.1	177	5.93
5	14.8	14.3	11.1	13.4	83	67	64	71	5.4	45	0.80
6	12.8	13.9	13.5	13.4	68	64	64	65	6.9	34	
7	12.9	12.8	14.2	13.3	57	47	60	55	3.0	375	0.77
8	16.3	17.9	15.5	16.6	84	88	82	85	2.2	293	14.73
9	14.5	12.1	11.5	12.7	81	65	70	72	7.0	129	3.15
10	9.3	9.0	8.8	9.0	57	50	54	54	7.7	85	
11	10.0	11.9	11.3	11.1	58	58	66	61	5.0	84	
12	10.9	12.3	12.9	12.0	65	64	73	67	6.7	53	
13	10.8	15.7	15.8	14.1	46	72	91	70	3.1	457	4.02
14	15.5	15.3	15.1	15.3	91	75	83	83	2.8	111	7.26
15	13.3	13.5	12.1	13.0	74	66	70	70	6.3	56	1.12
16	11.9	12.8	13.1	12.6	67	66	70	68	1.3	31	
17	13.0	14.2	12.9	13.4	71	69	72	71	4.9	31	
18	12.5	14.0	14.6	13.7	71	72	82	75	8.2	106	
19	13.0	14.5	12.9	13.5	76	72	73	74	8.0	19	
20	12.8	15.2	12.6	13.5	70	71	67	69	2.2	27	
21	9.7	15.2	13.6	12.8	52	71	73	65	6.3	105	
22	13.2	14.9	14.0	14.0	76	75	81	77	7.8	29	3.00
23	12.1	12.1	13.4	12.5	72	62	74	69	7.4	151	
24	13.2	14.9	11.1	13.1	76	75	61	71	7.9	53	
25	9.1	14.4	14.8	12.8	48	69	79	65	8.3	5	
26	7.4	21.7	16.9	15.3	36	46	82	55	4.9	100	
27	13.1	12.7	12.2	12.7	66	59	61	62	4.9	132	
28	11.8	14.0	11.6	12.5	65	69	69	68	0.8	74	
29	10.8	15.0	13.6	13.1	61	73	74	69	1.6	60	
30	11.7	11.6	13.6	12.3	65	59	76	67	8.2	116	
31	10.1	16.7	11.2	12.7	63	62	68	64	8.2	71	
	12.14	14.13	13.14	13.14	67.0	66.6	72.4	68.7	5.22	110.77	2.05

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 year averages are for period, 1875-1945

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Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	1se	1sw	1sw	light	Excellent Visibility-
2	9st	10st	10st	9.7	2sw	3sw	2sw	,,	p.m.
3	10st	10cu-st	8st-cu	9.3	3sw	3sw	2sw	,,	Rain bow.at,2:00p.m
4	10st-ni	10st-ni	9st-ni	9.7	2se	2sw	2sw	,,	
5	0	10st	4st	4.7	1ne	2ne	1e	,,	
6	9ci-st	9ci-st	8st-cu	8.7	2sw	1n	1sw	light	
7	7st-cu	10st-cu	0	5.7	2s	6sw	3sw	slight	Rain bow.at,7:15a.m
8	10cu-ni	9cu-ni	8cu-ni	9.0	4sw	4sw	3sw	light	
9	8cu-st	2cu-st	0	3.3	1s	3ne	2e	,,	
10	5cu-ci	2cu-ci	1ci	2.7	2se	2ne	3se	,,	
11	0	10cu-st	1cu	3.7	2se	2ne	2se	light	
12	8ci	10ci	0	6.0	1se	1e	1se	calm	
13	1st	10st	10st-ni	7.0	4sw	5sw	3sw	sligh	
14	8st-ni	8st-ci	6st-ni	7.3	1se	2w	1s	light	
15	9cu-st	6st-ci	0	5.0	1s	2sw	1s	,,	Lunar Halo
16	10st	10ci-st	10ci	10.0	1s	2n	1s	light	D.a.m
17	10st-ci	7st	0	5.7	1sw	1e	1e	,,	
18	0	0	0	0.0	1e	3ne	1e	,,	D.a.m
19	0	5ci	0	1.7	1e	1ne	2e	,,	D.a.m
20	10ci-st	0	0	3.3	1sw	1ne	1w	calm	D.a.m.M.p.m
21	0	10cu-ni	0	3.3	2sw	3w	2sw	light	
22	1ci	6ci	0	2.3	2s	1n	1e	,,	
23	2ci	6ci	0	2.7	2ne	3ne	4ne	,,	D.a.m
24	0	7ci	7ci	4.7	1sw	1nw	1e	,,	D.a.m
25	0	0	6ci	2.0	1se	1ne	1e	,,	Mist. D.p.m
26	10st	8ci-st	0	6.0	2e	2sw	4sw	light	
27	10cu-st	3cu-ci	7cu-ni	6.7	2sw	2sw	1s	,,	Tr.p.m
28	4cu	10st	10st	8.0	1sw	1sw	1s	,,	
29	10st	10ci-st	8ci	9.3	1nw	1ne	1e	,,	
30	1cu	0	0	0.3	1e	1ne	3ne	,,	
31	0	0	0	0.0	1e	1ne	2ne	,,	D.a.m
	mean								

Abbreviations : G = gale; H = haze; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	2	5	7	5	11	0	1	0	31
14:30	3	12	2	0	0	11	2	1	0	31
20:30	0	3	9	3	5	10	1	0	0	31
Total	3	17	16	10	10	32	3	2	0	93

Number of days with rain 11, fog 0, thunderstorms 0, gale. 0
71 yr. av. number of days with rain during month 13.4
Time of reading minus 2 hours equals G.C.T